

WHAT IS CLAIMED IS:

1. A three-action lock barrel is essentially comprised of a case,
a limiter, multiple locking plates and a rotor; wherein,
the case related to a hollow cylinder having at its center
provided with a circular hole and an axially extending trough
each respectively provided on the inner wall of the circular
hole;
the limiter inside the case having a limiting plate each
provided on both sides to define a longitudinally open room to
accommodate and limit those multiple locking plates; those
multiple locking plates being arranged in flush to engage
longitudinal sliding movement; and the limiter being driven
by those multiple locking plates to rotate to unlock a lockset;
those multiple locking plates arranged being abutted to one
another; each locking plate having two arc edges at both of its
upper and lower sides and two symmetric right and left sides
in parallel, and provided with an upper locking pin or a lower
locking pin either at its upper arc edge or the lower arc edge
at random; an inclined arc plane being provided on the upper
edge and an elastic member at the lower edge in each locking
plate; and
the rotor related to a cylinder provided to receive insertion of
a key to unlock the lockset having provided at the front end of
the rotor a keyhole axially extending through the lock barrel,
and a groove being formed on the body of the rotor;
characterized by that:

- the limiter having the rear end a circular or oval plate penetrating through and placed in the case; those multiple locking plates being accommodated in the room of the limiter; the limiter having its limiting plates to cover up those multiple locking plates on both sides; the rotor being inserted into those multiple locking plates; and the elastic member holding against the lower side of the rotor,
2. A three-action lock barrel as claimed in Claim 1, wherein, one inclined, or alternatively two in symmetric, arc plane is provided on each of those multiple locking plates.
3. A three-action lock barrel as claimed in Claim 1, wherein, the limiter is formed with a circular plate having on both sides of its front end respectively provided a semi-circular limiting plate to define the space between two limiting plates a longitudinally open room; and a round hole provided at the center.
4. A three-action lock barrel as claimed in Claim 1, wherein, the limiter alternatively is related to a punched and folded metal plate; an oval plate being each provided at the front and the rear ends of the limiter, a flat limiting plate being folded each on both sides of those two oval plates to define a longitudinally open room between two limiters; and a round hole being each provided at the center of two oval plates.
5. A three-action lock barrel as claimed in Claim 1, wherein, the elastic member relates to an arc elastic plate; a sink being provided at the lower edge of each locking plate; and the elastic member being inserted into and held in position by the

sink.

6. A three-action lock barrel as claimed in Claim 1, wherein, a circular pillar is provided to the rear end of the rotor; and the rotor being engaged to the limiter for both to be turning around.

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